

Electronic Attenuators / Switches

B03-27
T-74-13-01

SCIENTIFIC / MINI-CIRCUITS

1 MHz to 2.0 GHz

case style selection

outline drawings see Table of Contents



LRAS



TFAS



SYAS



PAS
GAS

MODEL NO.	FREQUENCY MHz		INSERTION LOSS dB				MAX. INPUT POWER dBm		IN-OUT ISOLATION dB			BI-PHASE \bar{X} (± 20 mA)		PRICE \$	DISTRIBUTOR							
	IN f_L-f_U	CON	Mid-Band m		Total Range		1 dB comp.	no damage	L	M	U	Δ AMP (dB)	Phase Deviation From 180°		Qty. (1-9)	FACTORY	LOCAL					
			Typ.	Max.	Typ.	Max.												Typ. Min.	Typ. Min.	Typ. Min.	m	Total Range
PAS case A01	• PAS-1 • PAS-2 • PAS-3 • PAS-2000	5-450 10-1000 1-200 100-2000	DC-0.05 DC-0.05 DC-0.05 DC-0.5	3.5 4.0 1.4 4.2	4.0 6.0 2.0 6.5	3.5 6.5 1.6 5.4	4.7 8.5 2.5 7.5	20 20 15 19	30 30 30 25	65 50 65 30	50 40 50 22	45 40 50 —	35 30 40 —	25 25 35 26	0.1 0.1 0.1 0.3	0.1 0.3 0.1 0.4	0.5 0.5 0.5 5.0	1.2 1.0 1.0 8.0	33.95 47.95 34.95 24.95	• • • •	• • • •	
□ TFAS case B02	• TFAS-1 • TFAS-2 • TFAS-860	2-400 10-1000 500-1000	DC-0.05 DC-0.5 DC-0.5	1.4 3.7 —	2.0 4.5 —	1.6 5 1.5	3.0 8 5.4	20▽ 17: 14	25 25 25	65 50 30 (typ.)	45 30 (20 (min.))	45 40 20	33 30 31	25 20 20	0.1 0.1 —	0.1 0.2 0.3	1.0 2.0 —	2.0 3.0 4.0	13.95 17.95 19.95	• • •	• • •	
□ SYAS case TTT167 case TTT166	• SYAS-1 • SYAS-2 • SYAS-860	2-400 10-1000 600-1000	DC-0.05 DC-0.05 DC-0.5	1.4 4.0 —	2.0 6.0 —	1.6 4.5 2.7	3.0 7.0 5.7	20▽ 17: 14	25 25 25	65 59 —	45 40 —	45 42 25	33 28 18	25 20 —	0.1 0.1 —	0.1 0.3 0.5	1.0 2.0 —	2.0 3.0 4.0	9.95 13.95 15.95	• • •	• • •	
ZFAS case K18	• ZFAS-2000	100-2000	DC-0.5	4.2	6.5	5.4	7.5	19	25	30	22	—	—	26	20	0.3	0.4	5.0	8.0	64.95	•	•

L=low range (f_L to $10 f_L$) M=mid range ($10 f_L$ to $f_U/2$) U=upper range ($f_U/2$ to f_U)
m=mid band ($2 f_L$ to $f_U/2$)

pin and coaxial connections

see case style outline drawings

Series	PAS			L/RAS	SYAS	TFAS	ZFAS	ZAS ZMAS
Models	-1	-2	-2000	all models	all models	all models	all models	all models
OUT	8	8	8	4	2	4	1	1
IN	1	1	1	1	1	1	2	3
CONTROL	*3,4	*3,4	3	5	3	2	3	2
GND♦	2,5,6,7	2,5,6,7	—	2,3,6	4,5,6	—	—	—
CASE GND	2	2,5,6,7	2,5,6,7	—	—	3	—	—
NOT USED	—	—	4	—	—	—	—	—

* pins 3 and 4 must be connected together externally

♦ Ground externally. All measurements made with GND pin(s) grounded externally.

NOTES:

- Recommended for electronic attenuator.
 - Recommended for bi-phase modulator.
 - +15 dBm from 100-800 MHz.
 - ▽ +15 dbm from 2-10 MHz.
 - +13 dBm from 10-500 MHz
 - NON-HERMETIC, TFAS units available in surface-mount, add suffix SM to part no., see case NNN-150
 - Available on tape and reel. Please consult factory.
1. Refer to Table of Contents for quality control procedures, environmental specifications, absolute maximum ratings, and hi-rel testing.
 2. For connector types and case mounting options, see case style outline drawings.
 3. Prices and specifications subject to change without notice.